

# THE TECH

VOL. XXXIV. NO. 76.

BOSTON, MASS., WEDNESDAY, DECEMBER 23, 1914.

PRICE THREE CENTS

## MAXIMUM POINTS TO BE REDUCED TO TEN

**New System Proposed Is Similar To Original With Few Changes.**

At the meeting of the Institute Committee yesterday, the Point System Committee presented a revised list of points calling for a 10-point system as an alternative for the previous list of 12 points. It was decided to lay the report on the table until the next meeting and to have the complete list as revised published in The Tech. The sentiment of the Institute Committee was in favor of the 10-point system.

The Finance Committee reported the adoption of a uniform voucher check for the use of the different activities. The Red Cross Committee presented its report. Both reports were accepted.

The 1918 Advisory Committee reported the results of their work and made several suggestions as to future committees. It was proposed to have the members elected by the Executive Board of the Sophomore Class and that the appointments should be ratified by the Institute Committee. The Committee also suggested that

(Continued on Page Four)

## TRACK MEN TO REST

**No Work Over Holidays—Freshman Meets Arranged.**

The track men are being given a complete rest-up over the holidays. Coach Kanaly says he wants the men to forget all about track during the vacation, but to come back with redoubled energy and enthusiasm to put into the work. The rest-up really began last week as there was no outdoor work Tuesday on account of the condition of the track and no indoor work because the basket-ball team had the gym floor.

After the holidays the freshman team will arrange two meets. One will probably be with Lowell Textile School, although there has been trouble in arranging the date to suit both teams. There is a possibility of a meet with the Dartmouth freshmen though arrangements are only tentative so far. If this falls through the team will meet either Worcester Academy or Exeter.

## PORTFOLIO COMMITTEE

The result of the elections to the Portfolio Committee of the Senior Class is as follows C. N. Runels, 24; C. W. Wood, 23; W. B. Spencer, 20.

## SHOW POSTERS

Preliminary sketches for show posters may be had at the Cage.

## BIG PREPARATIONS FOR JUNIOR DINNER

**Event Will Take Place On The First Tuesday After School Reopens.**

The 1916 class dinner which is to be held on Tuesday evening, January 5th, will be unique among such events. The committee has worked on the details with care and a lively time is guaranteed. A feast of delight is in the making and after this is disposed of, a little varied talk from Dean Burton, Professor Hayward and Mr. Blackstein will add to the interest of the evening. At the conclusion of the speaking an innovation, the like of which has never before been seen or heard of at the Institute, has been arranged. A full-fledged "movie" show, complete in detail, will be run. Very few men of the Institute have seen the pictures of the last Technique rush and it will be very appropriate to have this film shown at the dinner. The reel is being traced now and unless the booking office is unsuccessful, the rush will be reviewed at the Union. Other film subjects are to be chosen during the Christmas recess and some suggestions received from members of the class are to be considered. It is not definitely known whether this includes films passed by the National Board of Censorship or not. The total number provided for is 200 plates, and as officers of the class and members of the different courses are rapidly disposing of their tickets, a crowd is assured. The men who are seeing the good time through are W. J. Farthing, T. F. McSweeney and R. H. White.

## MUSIC FOR LYRICS

**Meeting Of Men Interested Held Last Monday.**

A meeting of the men who are to write music for the Tech Show lyrics was held last Monday afternoon when over twenty-five were present. Most of those who wrote music for last year's show are back and they will try again this year. Copies of lyrics were given out and suggestions were made by I. B. McDaniel, '16, author of this year's play, "Getting Across," and also by the stage manager, C. A. Coleman, '15.

The competition closes on Monday, Jan. 4th. Music may be left either at the Cage or Show Office. Choice of the music for the lyrics will be made by Mr. William Howard, director of the Show, and Mr. Samuel Hume, the Coach.

## BANQUET GIVEN

A banquet was given to Professor Henry L. Seaver by the Latin-American students of his English sections last evening at the Westminster.

## SUPPLEMENTARY ISSUE OF TODAY'S TECH

**Latest Progress Of Buildings At New Site—Don't Go Home Without One.**

This issue of The Tech is supplemented by a four-page edition, featuring the New Site exclusively with the latest developments and progress, and with a series of cuts. The supplement will contain, on a separate sheet of heavy coated stock, a panoramic view of the entire site, size three and one-half by twenty inches. The New Site supplement will not accompany the regular issue, nor will it be sold separately. Regular subscribers of The Tech may obtain the supplement for five cents extra, however, by calling at the lower office of The Tech. The complete issue may be obtained for ten cents, or one coupon and five cents.

## RED CROSS DAY

**Seventy-Two Dollars Collected In The Institute.**

Red Cross Day at the Institute took place last Monday. There was a box in Rogers corridor and all the drawing rooms and laboratories were canvassed twice during the day. It is estimated that two-thirds of the students were approached personally and there was no stipulated amount asked for, but some of the students emptied their pockets of all small change.

The lowest amount given was two cents, the highest one dollar. It is figured that each student contributed an average of four cents. Fifty-two dollars was collected in the canvass and the Technology Monthly gave twenty dollars, making a total of seventy-two dollars. Because of Tag Day, the T. C. A. Campaign fund, the Winter Concert, and Christmas, all coming in such a close proximity, the committee feels that the response was very liberal.

## WIRELESS SOCIETY

The second meeting of the year of the Wireless Society will be held today at 4.30 p. m. in 11, Engineering B. It has been planned to have the meetings during the coming season take the form of talks on the principles involved and the uses and advantages of the different types of instruments. The speaker at today's meeting will discuss the different detectors in use at the present time, laying particular importance on the theories applied and the advantages and disadvantages of their use. Among the most important of these instruments to be discussed are the Coherer, Magnetic and Electrolytic Detectors, the Thermo Detector and the Fleming Valve. It is hoped that men interested in this study will attend.

## "CHRISTMAS CAROL" IS READ BY. PROF. BATES

**Large Audience Hears Rendition Of Dickens' Story of Christmas.**

Yesterday afternoon at four o'clock Professor Arlo Bates read Dickens' "Christmas Carol" to a large audience in Huntington Hall. Introductory to the reading he spoke a few words in praise of Dickens' writings. He told how they were rich in good spirit and kindly humanity, and how well Dickens conveyed to his readers the impression which he intended by his sympathetic, sincere and humorous way of presenting them.

Dickens himself used to give readings from his own works when he was in America, and some of his books he revised for public reading. It was this briefer version of the "Christmas Carol," so often recited by the great author, that Professor Bates gave to his audience.

## SOUTHERN CLUB PARTY

**Planned To Take Place During Christmas Vacation.**

The Southern Club has planned to give a Christmas party during the holidays. Quite a number of the Southern boys and girls will spend their vacation in Boston, and if a sufficient number of men are interested, a pleasant evening can be planned. Southerners in Technology are welcome. Those that care to go will please notify John T. Bauer, 1325 Commonwealth Avenue. Telephone Brighton 23104. Phone, write a card, or leave a note at the Cage.

## M. I. T. CO-OP. OFFICERS

The following are the present officers of the M. I. T. Co-operative Society:

President, Francis F. Fulton, '15.  
Vice-President, McCeney-Werlich, '15.

Secretary, Steven R. Berkowitz, '16.  
Treasurer, Andrew D. MacLachlan, '16.

The directors of the society consist of the above officers and the following:

The President of the Institute, Ex-officio.

Clive W. Lacy, '15.  
Samuel M. Fox, Jr., '16.  
Linwood T. Noves, '17.  
Paul G. Woodward, '17.

## CALENDAR

Wednesday, December 23, 1914.

4.30 P. M.—Wireless Society Meeting, 11 Eng. B.

Thursday, December 24, 1914.

Christmas recess begins.

# THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published tri-weekly during the college year by students of the Massachusetts Institute of Technology.

## MANAGING BOARD

A. H. Waitt, '15.....General Manager  
E. A. Weaver, '15.....Editor-in-Chief  
E. F. Hewins, '16.....Managing Editor  
S. Keith, '16.....Advertising Manager  
W. T. Knieszner, '16.....Circulation Mgr.  
H. P. Claussen, '16.....Treasurer

## NEWS BOARD

H. E. Lobdell, '17.....Asst. Man. Editor  
J. M. DeBell, '17.....Institute Editor  
B. N. Stimers, '16.....Assistant  
J. G. Fairfield, '16.....Societies Editor  
H. P. Gray, '16.....Athletic Editor  
G. H. Stebbins, '17.....Assistant

## NEWS STAFF

W. F. Johnson, '17 A. D. Nute, '17  
A. E. Keating, '17 E. W. Rounds, '17  
H. N. Keene, '17 F. A. Stearns, '17  
R. E. McDonald, '17 A. P. Sullivan, '17  
D. E. Bell, '17 K. M. Lane, '17  
A. H. Wenzel, '17 J. W. Damon, '18  
B. A. Thresher, '18 F. A. Birmingham, '18

## BUSINESS STAFF

F. H. Wells, '18

Office, 42 Trinity Place.  
Phone—Back Bay 5527 or 2130.  
Night Phone—Back Bay 5527.

## OFFICE HOURS

(Daily except Saturday)  
General Manager .....5.30 to 6.00 P. M.  
Managing Editor .....6.30 to 7.30 P. M.  
Advertising Manager.....5.00 to 5.30 P. M.  
Treasurer .....5.00 to 6.00 P. M.

Subscriptions, \$1.50 per year, in advance. Single copies, 3 cents.  
Subscriptions within the Boston Postal District, and outside of the United States, must be accompanied by postage at the rate of one cent a copy.

WEDNESDAY, DECEMBER 23, 1914.

## IN CHARGE OF THIS ISSUE.

Editor: E. F. Hewins, '16.  
Associate: T. J. Fairfield, '16.  
Assistants: A. R. Brooks, '17; A. D. Nute, '17; F. A. Stearns, '17; R. E. McDonald, '17; J. W. Damon, '18.

The Tech takes pleasure in announcing the following elections to the News Staff:

F. A. Birmingham, '18.  
D. E. Bell, '17.  
J. W. Damon, '18.  
K. M. Lane, '17.  
B. A. Thresher, '18.  
A. H. Wenzel, '17.  
And to the Business Staff:  
F. H. Wells, '18.

Although the donations to the Red Cross fund were satisfactory to the committee, and were certainly not unreasonable considering the many demands on the student's pocketbook at this time, it still seems that Tech men might have averaged more than four cents apiece for the relief of our stricken fellow-mortals across the water. Let us hope the next Red Cross Day two months hence will see the average raised to a more respectable figure.

As yet only the Junior and Senior lists of paid-up class members are posted in the Union, and even these lists are far from perfect, containing, for example, the names of many men who have left school. Ample time has elapsed for the other classes to have made out their lists, and for all to have been corrected according to the current catalogue.

## COMMUNICATION

To the Editor of The Tech:

It gives me great pleasure to "give a full explanation of the unnecessary blunder" attributed to the committee in charge of the C. E. trip Sunday morning, as requested in Monday's Tech.

First I want to say that the officers of the Society are very sorry that so many missed the car, as it was one of the most interesting trips ever conducted by the Society, but the fact that some did not know the time the car left cannot be blamed on the C. E. Society, its committee nor its officers.

At 10.45 A. M. Saturday morning a telegram was received saying the bridge was to be slid in at 6.10 A. M. instead of 7 A. M. as we were formerly told. That meant that the car would have to leave at 5.30 at the latest if we wished to see the bridge rolled in. The announcement was made to that effect in Foundations, the only class the Seniors have on Saturday, at 11 o'clock and immediately I personally posted the change in time on the poster and the blackboard in the Union. At the same time (11 o'clock) the time was changed on the posters in Walker and Rogers by one of the committee.

All those who were left at Copley Square may receive their money back from the undersigned. I wish to state that the Society is very sorry that this incident occurred, but it was one of those unavoidable accidents beyond our control.

Sincerely,  
HOWARD C. THOMAS,  
Pres. C. E. Society.

To the Editor of The Tech:

It is quite unnecessary to say, in regard to the occurrences in History lectures mentioned by your recent communicant, that such acts are disgraceful as well as ungentlemanly; since, however, mere protests against such behavior are of little avail, it might be well to take a more energetic stand. If any one member of the

(Continued on Page Six)

While all members of the Institute Committee are doubtless familiar with the regular time of meeting, it would do no harm to have meetings posted on the Calendar.

Juniors have received notice that their choice of a general study for the second term is due at the Registrar's office on the second of January. These studies are designed to counteract the narrowing influence of a single line of professional work, and the wise student will choose, not the one he has heard is a "snap" course, but that which will give him the best contrast to his required subjects.

The suggestion made by today's communicant for remedying the disrespect sometimes shown in lectures is a good one, and we hope some earnest members of the classes in question will show the courage of their convictions and put it into effect. Public opinion, when sufficiently aroused to express itself, is an irresistible corrective for such offenses.

THAR'S two places whar  
you can *always*  
find sympathy—in  
the dictionary an' in  
a pipe o' VELVET.

*Velvet Joe*



For there's solid solace in that aged-in-the-wood mellowness which changes Kentucky's *Burley de Luxe* into VELVET, The Smoothest Smoking Tobacco. 10c tins and 5c metal-lined bags.

*Liggett & Myers Tobacco Co.*



**Students'  
Clothes**

**J. C. LITTLEFIELD**

High Class Tailor  
12 BEACON STREET  
Evening Clothes a Specialty

ALL GOODS REQUIRED BY  
STUDENTS AT

**Maclachlans**

502 BOYLSTON STREET  
Drawing Instruments and Materials, Fountain Pens, Text Books

**C. F. Hovey Company**

Summer, Chauncy  
and Avon Streets

BOSTON  
M A S S.

**Men's Thread Silk  
Half Hose**

**In Attractive Gift Boxes**

Men's Thread Silk Half Hose, in black and plain colors. Per pair 50c, \$1.00 and \$1.50

French Accordion Silk Half Hose, in stunning color combinations. Per pair . . . \$1.50

Fine English and French Silk Half Hose, in plain and fancy effects. Per pair \$2.50 to \$5.00

**Special Lot of Men's Silk Negligee  
Shirts**

in all white and white grounds with colored stripes.  
Each . . . . . \$3.50

## TALK TO ELECTRICALS ON REPORT WRITING

Mr. Blood of Stone & Webster  
Speaks Of The Habit Of  
Observation.

At the meeting of the Electrical Engineering Society last night in the Union, about 90 men listened to a talk by Mr. Blood on Examinations and Reports. Mr. Blood is a graduate of the Institute in the class of 1888, and is employed by the Stone & Webster Engineering Corporation to look up plants to consider their value. In this line he has had a very wide experience, and has travelled extensively in this country.

Mr. Blood began his talk by giving the men an examination; he uncovered an exhibit of common mechanical and household goods on a black-board for thirty seconds; and then asked the men to tell the dimensions of the board, the material and color of the mount; and to state whether the mount bore any distinguishing marks, and if so what, and to give a list of the objects on the mount. The examinations were handed in at the close of the speech. Out of twenty-five objects on the mount, the man who saw the most saw sixteen; the two next were thirteen each. Mr. Blood then said that most people are not good observers but that the habit of observation improves greatly with practice. He asked how many knew how many steps there are on a passenger coach; or whether the even numbers are on the south or north side of Boylston Street. Such trivial matters are often of the greatest importance in law-suits, he said, and gave a number of instances. In one case an electric light company was charged with corroding the water pipes by electrolysis by an alternating current; but in the course of the investigation it was shown that the corrosion was started by little pockets on the inside of the pipes, so that the trouble was due really to defects in the manufacture. Again, in a fire the inspector saw that the flames had gone up the wall to an electric light switch, and concluded that the fire had started there; but Mr. Blood showed that the fire had started three feet below. He said that ninety-nine people out of a hundred think that they see a ball of fire as a lightning discharge, but this is an hallucination. Lieutenant Peary reported that he had discovered "Crocker Land" but a second party failed to find it. In another case a committee was appraising a plant down to merest details such as ink stands, but forgot \$960,000 worth of steam pipe. He advised the men to save their papers of estimation and said that when he started out he kept a book with the left hand page for calculations and the right hand side for estimation. The education at the Institute will not make men experts, expertness comes only from years of experience, and they must expect to work hard. The ability to co-ordinate information is less readily secured than the habit of correct observation. He spoke very highly of the course in Precision of Measurements and said that few men not technical graduates have any appre-

## CONCERT AND DANCE TO BE GIVEN SOON

Musical Clubs Will Combine  
With Institute Committee  
In The Affair.

The Combined Musical Clubs and the Institute Committee will unite on January 8, 1915, in order to give a concert and dance at popular prices. This concert will be held in Huntington Hall while the dance will be at the Union, where both the upstairs and downstairs rooms will be used.

The object of the affairs is twofold. In the first place it is desired to raise money to help defray the expenses of the Musical Clubs' mid-year trip and of the Technology activities in general. Secondly, the Musical Clubs wish to give the student body a chance to become better acquainted with this activity.

All the money taken in from the concert will go to the Musical Clubs and all the money taken in for the dance is to be used by the Institute Committee for general purposes.

There will be two kinds of tickets; those for the concert alone, and those for both the concert and the dance. Concert tickets will be only twenty-five cents, while the tickets for both are to be seventy-five cents. Each kind of tickets will go on sale the day after the Christmas recess.

The men who are going on the Portsmouth trip must be at the North Station at a quarter of five on Thursday, Dec. 31st.

ciation of "significant figures," and "weighted means" and quoted several examples.

Mr. Blood next turned his attention to reports and said that every man should spend a little time "setting and thinking" before writing a report. A skeleton is very helpful in planning the work. A report should always contain a summary and recommendations, preferably at the first. The man who reads the report is generally very busy and not technically trained, so that he will not read the report clear through. He paraphrased the saying "Brevity is the soul of wit" to read "Brevity is the soul of a good report." In addition a report should be dignified and interesting and should command respect. Men should remember that few people know what even a kilo-watt hour is and that it is surprising how few electrical and mechanical terms the layman knows. Moreover, most people fail to understand charts.

In regard to the final execution the report should look businesslike and while one should not try to get out a picture book no sloppy work should be allowed. A most necessary feature is a usable index. Photographs may well be included but should be mounted so as not to curl. Among the difficulties met are the facts that no two problems are the same and the engineer can't find the answer in the back of the book, nor except rarely, check his own work. He concluded by reading a poem "What's the Use" which illustrated the point that the chief thing in life is the satisfaction of having done your work as well as you can.

## L. P. Hollander & Co.

Boylston Street and Park Square  
Boston

**M**EN'S Clothing and Furnishings that combine the conservative, refined stamp of a gentleman with absolute authoritative style.

**I**N maintaining an exclusive footwear standard we appeal directly to the discriminating man who demands that his shoes reflect the newest style, combined with absolute comfort and serviceability

**COES AND  
YOUNG CO**  
20 SCHOOL STREET

## SATISFACTION AND REAL ECONOMY

ARE THE RESULTS OBTAINED IN BUYING THE  
BEST OF MEATS AND PROVISIONS  
YOU CAN ALWAYS GET THAT KIND OF  
**WESTON-THURSTON COMPANY**  
Stalls 20, 22, 24, New Faneuil Hall Market  
BOSTON, MASS.  
—TEL—

Richmond, 540

Richmond, 521

Established in Cambridge in 1895

## L. PINKOS

College Tailor

338 WASHINGTON ST.,  
BOSTON, MASS.

HARVARD SQUARE  
CAMB., MASS.

I invite your inspection of my new line of FOREIGN SUITINGS and COATINGS which is the largest assortment shown in this city for young men at prices which will fascinate you.

The best dressed men in Tech for the past fifteen years have been my customers, why not you?

A SPECIAL DISCOUNT OF TEN PERCENT TO ALL  
TECH MEN.

**L. PINKOS, Tailor**



## The Tech Union Dining Room **WILL BE CLOSED** **DECEMBER 24-30, INC.**

With three offices, conveniently located in different sections of Boston, the Old Colony Trust Company offers exceptional banking facilities for Technology men. Modern safe deposit vaults at all offices.



### POINT SYSTEM (Continued from Page One)

the appointments be made in December rather than in May as was done last year. This was found necessary in the case of the football manager, for the schedule has to be made out during the winter. If the manager is not elected until May he does not have a chance to arrange a satisfactory schedule. The matter was referred to the committee on changing the Undergraduate Constitution consisting of the four class presidents.

The following members were absent: H. L. Leeb, '15; H. P. Sabin, '15; T. F. Spera, '15, and O. C. Lorenz, '18.

The Point System as revised is here given:

#### Class A.—10 Points.

Pres. Senior Class  
General Manager Tech Show  
Editor-in-Chief Technique  
General Manager The Tech  
Pres. M. I. T. A. A. (if Captain of Track Team)  
Manager Track Team (if member of Advisory Council)  
General Manager Musical Clubs

#### Class B.—9 Points.

President Junior Class  
Editor-in-chief The Tech  
Managing Editor The Tech  
Manager The Track Team  
Business Manager Technique  
Business Manager Tech Show  
Advertising Manager Tech Show  
Stage Manager Tech Show  
Treasurer Tech Show  
Managing Editor Technology Monthly

#### Class C.—8 Points.

Chairman Union House Committee  
Business Manager Technology Monthly  
Editor-in-Chief Technology Monthly  
Advertising Manager The Tech  
Circulation Manager The Tech  
Technique Board  
Assistant General Manager Musical Clubs  
Stage Director Tech Show  
Secretary-Treasurer Institute Committee

#### Class D.—7 Points.

Feature Editor Technology Monthly  
President Sophomore Class  
President T. C. A.  
News Board The Tech  
Junior Prom Committee  
Manager Tech Orchestra  
Assistant Business Managers Tech Show  
Assistant Stage Manager Tech Show (second term)  
Executive Committee of Institute Committee  
Treasurer The Tech

#### Class E.—6 Points.

Senior Portfolio Committee  
Advertising Manager Technology Monthly  
Circulation Manager Technology Monthly  
Treasurer Technology Monthly  
President Freshman Class  
Captain Track Team  
President M. I. T. A. A.  
President Professional Societies  
Manager Hockey Team  
Manager Basketball Team  
Assistants News Board The Tech  
Business Board The Tech

(Continued on Page Five)



### The PERFECT Pipe Tobacco

O.P.M. is mild, fragrant, slow burning, and

**DOES NOT BITE THE TONGUE**

**THAT'S WHY IT'S PERFECT**

2-oz. Can, 25 cents  
4-oz. Can, 45 cents  
8-oz. Can, 80 cents  
16-oz. Can \$1.60

It is **ABSOLUTELY THE FINEST MIXTURE PRODUCED** . . . .

Manufactured by

**COBB, BATES & YERXA CO., Boston, U. S. A.**

### The Latest Dances

**H. E. MARSHALL HALL**

Of the Chalf School, N. Y.,  
PRIVATE AND CLASS  
INSTRUCTION.

**SBIREE DANTSATS SATURDAY, 8 P. M.**

Subscription \$1.00 a Couple

**SALON DE DANSE**

295 HUNTINGTON AVE., BOSTON.

Tel. Back Bay 3728

Opp. N. E. Conservatory of Music.

### Students' Cast-Off Clothing

and other personal effects  
bought by

**KEEZER**

360 Columbus Avenue  
Near Dartmouth St.

Highest prices paid for same

Phone, Write or Call

Open Evenings to 9 o'clock

B. B. 6843

RESERVED BY

## Chauncy Hall School

553 BOYLSTON ST.

BOSTON, MASS.

## Preparation for the Institute

**FRANKLIN T. KURT, Principal**

**POINT SYSTEM**

(Continued from Page Four)

Leaders Musical Clubs  
 Principals Tech Show  
 Assistant Advertising Manager  
 Tech Show  
 Commodore Boat Club  
 Manager Swimming Team  
 Manager Gym. Team  
 Class F.—5 Points.  
 Members Union Committee  
 Assistant Editor-in-Chief Technology  
 Monthly  
 Assistant Managing Editor Technology  
 Monthly  
 Members Institute Committee  
 Members Track Team  
 Assistant Manager Track Team  
 Chorus Tech Show  
 Members Boat Club  
 Members Cross-Country, Hockey,  
 Basketball, Swimming, and Gym.  
 Teams  
 Members Musical Clubs and Orchestra  
 (first term)  
 Candidates for Assistant General  
 Manager Musical Clubs  
 Members and Candidates for Editorial  
 Staff The Tech  
 Class G.—4 Points.  
 Members Business Staff Technology  
 Monthly  
 Treasurers four Classes  
 Treasurer T. C. A.  
 Manager Wrestling and Class  
 Teams  
 Members Musical Clubs and Orchestra  
 (second term)  
 Assistant Managers Hockey, Basketball,  
 Gym., and Swimming  
 Teams  
 Members and Candidates Business  
 Staff The Tech

Assistant Treasurer The Tech  
 (Treasurer M. I. T. A. A.) or 3  
 points  
 Class H.—3 Points.  
 Members Editorial Staff Technology  
 Monthly  
 (Treasurer M. I. T. A. A.)  
 Members Athletic Advisory Council  
 Class Teams  
 Wrestling Team  
 Manager Tennis Team  
 Class I.—2 Points.  
 Sec.-Treas. all Professional Societies  
 and Clubs  
 Pres. all Clubs and non-Professional  
 Societies  
 Members M. I. T. A. A.  
 Tennis Team  
 Secretary M. I. T. A. A.  
 Class J.—1 Point.  
 Vice-President four Classes  
 Executive Committee or Directors'  
 Classes  
 President Musical Clubs  
 Vice-President T. C. A.  
 Vice-President M. I. T. A. A.  
 Vice-President Musical Clubs  
 Secretary Musical Clubs  
 Secretaries all Clubs and Societies  
 Treasurers all Clubs and Societies  
 Standing Committees all Clubs and  
 Societies  
 Other officers all Clubs and Societies  
 not mentioned elsewhere  
 Officers of Co-op. Society  
 A man being a member of the Institute  
 Committee by reason of some  
 other office which he holds, shall have  
 only the points attached to the office,  
 provided they exceed or equal five  
 (5), otherwise he shall have the five

(Continued on Page Six)

**Macular Parker Company***Makers of Clothes for Men and Young Men*

**Wish You a Merry  
 Christmas and a  
 Happy New Year.**

**Note—Watch Next Week's Daily Papers  
 For Special Announcement.**

**400 WASHINGTON STREET  
 BOSTON**

**For the Holidays**

Student's Bags	Pocket Flash Lights
Kodaks	Pocket Knives
Thermos Bottles	Greeting Cards
Photo Albums	Opera Glasses
Thermometers	Reading Glasses
Fountain Pens	Safety Razors

**E. F. MAHADY COMPANY**OPTICAL & PHOTOGRAPHIC  
SUPPLIES.

671 Boylston St., Boston, Mass.

Opp. Public Library.

**CARL A. ZAHN**

Barbering      Manicuring  
 Chiropody

Razors, Brushes, Perfumery,  
 Haberdashery

**THE PLAZA      COPLEY PLAZA**  
 New York      Boston, Mass.

**NEW GREENBRIER**  
 White Sulphur Springs, West Virginia

**DON'T MISS  
 THE DISPLAY  
 OF CHRISTMAS  
 GOODS AT THE  
 TECH LOWER OFFICE  
 DAILY UNTIL XMAS  
 STERLING SILVER WARE**



**The Original  
TECH BARBER SHOP**  
At 22 Huntington Ave.  
OVER HAYES' DAIRY LUNCH  
Old Established Dining Room

## Stone & Webster

CHARLES A. STONE, '88  
RUSSELL ROBB, '88  
ELIOT WADSWORTH, '91  
JOHN W. HALLOWELL  
EDWIN S. WEBSTER '88  
HENRY G. BRADLEY '91  
DWIGHT P. ROBINSON '92

**SECURITIES OF  
PUBLIC SERVICE CORPORATIONS**

**STONE & WEBSTER  
ENGINEERING CORPORATION  
CONSTRUCTING ENGINEERS**

**STONE & WEBSTER  
MANAGEMENT ASSOCIATION  
GENERAL MANAGERS OF  
PUBLIC SERVICE CORPORATIONS**

147 MILK STREET, BOSTON  
NEW YORK CHICAGO

**Cuban Cigar Store**  
**CLASS PIPES A SPECIALTY**  
**TWO STORES**  
993 Boylston Street  
42 Huntington Avenue

**COMMUNICATION**  
(Continued from Page Two)

Faculty deserves the respectful, if not interested, attention of every member of his class, it is Professor Currier. Very probably no other instructor in the Institute is more painstaking and conscientious in presenting his subject, or more considerate of the weaknesses of his classes, than is Professor Currier. Surely every thoughtful, true Tech man will recognize that common courtesy is the least he can do for both the professor

*Moore's  
makes the  
ink behave*

Starts writing  
at a touch and  
keeps on writing  
smoothly and evenly.  
Makes writing in class,  
"exams" or study much easier,  
for you don't have to watch a Moore.  
It always writes RIGHT. The  
original "won't leak" pen, too.  
127 styles and sizes from \$2.50.

For Sale at College  
Bookstores and all  
Dealers

*Moore's won't leak*

AMERICAN FOUNTAIN PEN CO., Mfrs.  
Adams, Cushing & Foster, Selling Agents  
600 Devonshire Street, Boston, Mass.

**Young Mens Hats  
for Every Occasion**  
**COLLINS & FAIRBANKS COMPANY**  
383 WASHINGTON STREET - BOSTON

and his classmates. Perhaps the offenders in question, and there seem to be a few from each class, might be willing to mend their ways if reminded personally and privately by more thoughtful members of the class. One has only to be educated out of the fallacious belief that anyone admires his disrespectful tactics, to become willing and anxious to respect the rights of his fellow men.

Sincerely,

E. J. G., '16.

### POINT SYSTEM

(Continued from Page Five)

points only attached to the Institute Committee Membership.

The captaincy of any team not mentioned shall have one point more than the rating for membership on that team.

A man shall be considered a member of a team after he has represented that team in one contest.

## Why Should I Smoke TUXEDO?

TUXEDO is the logical smoke for millionaires because it is impossible to buy a better tobacco.

Tuxedo is the logical smoke for the economical man because there are 40 pipefuls in a ten-cent tin—making the average cost per pipeful only one-fourth of a cent!

To buy cheaper tobacco means to get less pleasure out of smoking, because it is impossible to make a tobacco as good as Tuxedo at less than the Tuxedo price!

**Tuxedo**  
The Perfect Tobacco for Pipe and Cigarette

Tuxedo is made of only the finest, choicest selected leaves of perfectly aged Burley tobacco. It is made by the original "Tuxedo Process" which takes all the unpleasantness out of tobacco and leaves all the pleasantness in!

Tuxedo has a deliciously mild, fragrant aroma that is pleasant to all. It is the only tobacco you can smoke in a room full of lace curtains without leaving even a trace of odor.

A trial will convince you that Tuxedo is superior to every other tobacco you have ever smoked. Buy a tin—today.

**YOU CAN BUY TUXEDO EVERYWHERE**

Convenient pouch,  
inner-lined with  
moisture-proof paper

5c

Famous green tin,  
with gold lettering,  
curved to fit pocket

10c

In Glass Humidors, 50c and 90c

**FREE**

Send us 2 cents in stamps for postage and we will mail you a souvenir tin of TUXEDO tobacco to any point in the United States. Address

THE AMERICAN TOBACCO COMPANY  
Room 1299 111 Fifth Avenue New York



GEO. CURRY  
ex-Governor, New Mexico  
"Tuxedo appeals to me  
strongly on account of its  
cool, mild, pleasant flavor.  
Therein lies its superiority to  
all other tobaccos."



STANTON WARBURTON  
Congressman  
State of Washington  
"My own experience leads  
me to believe that every desirable  
quality is present in  
Tuxedo Tobacco. It is the  
best smoke I ever had."



IRVIN S. COBB  
humorist and novelist  
"I can't think of any reason  
why I shouldn't say I  
like Tuxedo—because I do  
like it, very much."

Irvin S. Cobb

## DINE AT THE Winter Garden HOTEL WESTMINSTER

Special attractions every evening  
before and after the theatre. Continuous music. Singing.

A homelike, first-class hotel,  
proud of New England  
traditions, dating from  
Gen. Warren, yet  
newly furnished  
with every  
comfort &  
convenience.  
**THE AMERICAN HOUSE**  
Long distance  
phone and  
hot and cold  
water in every  
room. Kept constantly  
clean by our  
vacuum plant. Rooms  
\$1.00 a day and up.

## CROSS-COUNTRY TEAM ELECTS CAPTAIN

Henry S. Benson Of Dedham  
Chosen To Lead The  
Team Of 1915.

At the meeting of the cross-country team Monday, Henry S. Benson of Dedham was elected captain for 1915. Benson has been a member of the team for three years, doing his best running as a freshman when he took sixth in the New England Intercollegiate and when he won the freshman intercollegiate at Andover with a lead of three hundred yards over Humphreys of Penn.

Benson last year was the best miler on the track team, running consistently around the 4.30 mark, and taking third in that event at the New England Intercollegiate.

His work this fall has not been quite up to his usual standard owing to the fact that he has been carrying a heavy schedule, but he ran a strong race at New Haven, finishing eighteenth in the big intercollegiate run. With Captain Cook, the only man to graduate, Benson will have a squad of veterans out, and should produce the strongest team which has ever represented the Institute.

### STATISTIC BLANKS

The Statistic Blanks for Technique 1916 were due at the Cage yesterday, but owing to the small number handed in, the time has been extended until after the Christmas vacation.

## MR. FRANK E. MORSE

TEACHER OF SINGING AND COACH

162 BOYLSTON ST.

STEINERT HALL

BOSTON

## Students' Laundry Work

I am prepared to do plain laundry work at a reasonable price. I will call for and deliver the work at the cage. Apply to

## R. A. GREENE

The Cage, Tech Union

IT PAYS TO TRADE WITH OUR ADVERTISERS

# THE TECH SUPPLEMENT

BOSTON, MASS, WEDNESDAY, DECEMBER 23, 1914

## PRESIDENT MACLAURIN TECHNOLOGY'S LEADER

The Man Who Has Made The  
Visions Of "The White  
City" A Reality.

President Richard Cockburn Mac-

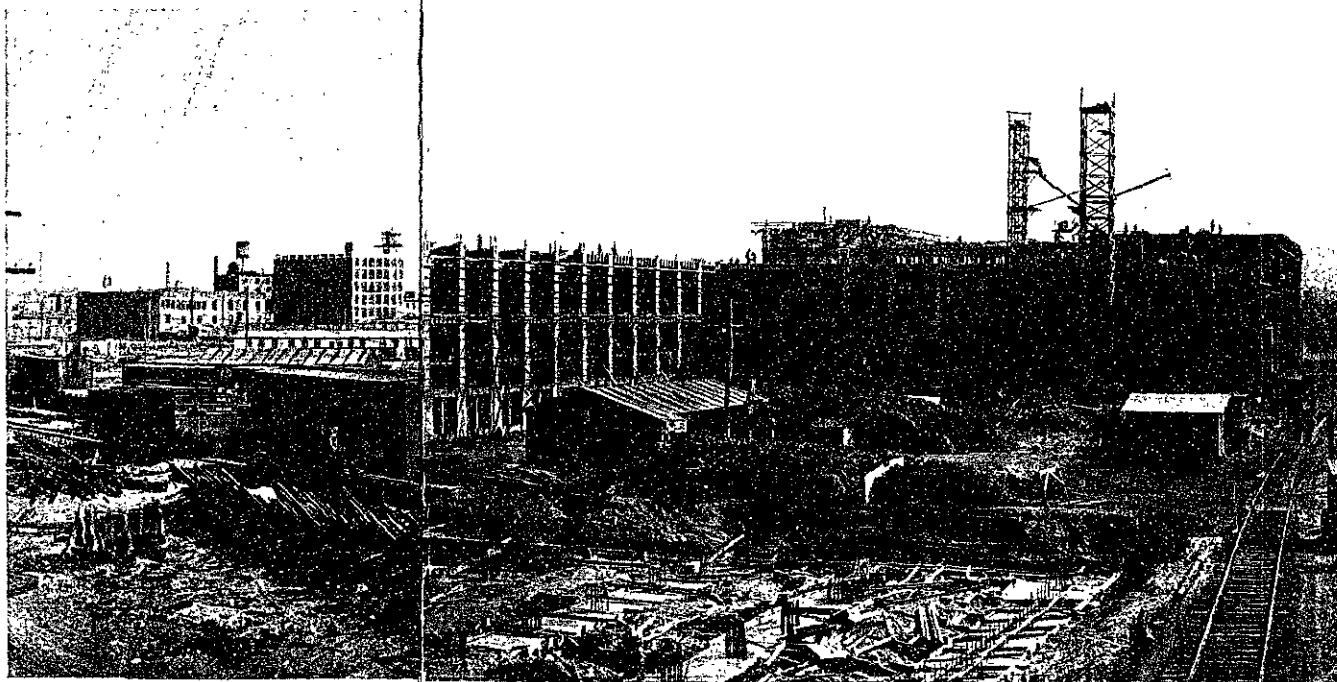
## INSTITUTE WILL OCCUPY NEW BUILDINGS IN NEAR FUTURE

Efficiency The Keynote Of The Whole Construction—

## WILLIAM BOSWORTH THE ARCHITECT

Designer Of New Technology  
Has Had Wide Training  
And Experience.

The admirable plan of the New

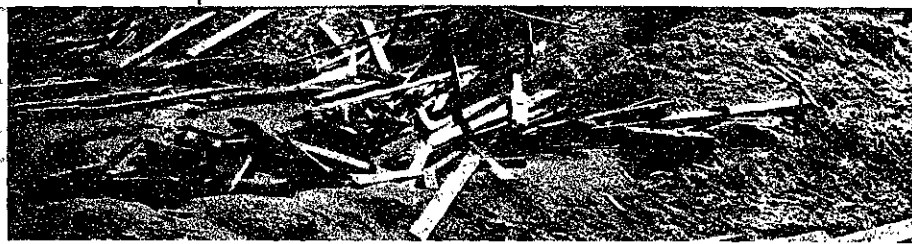


## RD BOSTON

1908 he was elected Dean of the Faculty of Law and held this office four years, until in 1907 he was invited to take the chair of Mathematical Physics in Columbia University, in New York. A year later Columbia made him the head of the Department of Physics. In 1904 he was honored by Cambridge with the degree of Doctor of Laws for his many achievements in the judicial field.

On November 23, 1908, Dr. MacLaurin was appointed by the Corporation of Technology to be President, and from that day he has been steadily working for the Institute with that success which has been so often set

(Continued on Page Three)



Technology will be moved in the near future to its new home in Cambridge on the Charles River. The buildings are rapidly taking shape and the enormous project is now assuming definite results, due largely to the systematic manner with which the whole affair has been treated. From the moment when the new quarters were definitely decided upon, everything has been solved from an efficient standpoint.

In the first place, efficiency is shown in the method adopted for the arrangement of the buildings in one continuous group. The advantage of this

(Continued on Page Two)

during this period that he gained his great reputation for the power of getting fine effects by simplest means.

Recently, he has been engaged on a magnificent thirty story white granite structure in New York, which is to be the headquarters of the Western Union Telegraph Company. This building will be recognized as

characteristic of Mr. Bosworth's evident dislike of complication and ornamentation, and his disinclination to use ornamentation except with some definite purpose in mind. Like the New Technology, it testifies to his good taste, his classic sense of simplicity, and his efficient method of dealing with practical problems.

The Original  
TECH BARBER SHOP  
At 22 Huntington Ave.  
OVER HAYES' DAIRY LUNCH  
Old Established Dining Room

## Stone & Webster

CHARLES A. STONE, '88  
RUSSELL ROBB, '88  
ELIOT WADSWORTH, '91  
JOHN W. HALLOWELL  
EDWIN S. WEBSTER '88  
HENRY G. BRADLEY '91

*Young Mens Hats  
for Every Occasion*

**COLLINS & FAIRBANKS COMPANY**  
383 WASHINGTON STREET — BOSTON

## DINE AT THE Winter Garden HOTEL WESTMINSTER

Special attractions every evening  
before and after the theatre. Con-  
tinuous music. Singing.

A homelike, first-class hotel,  
proud of New England  
traditions, dating from  
Gen. Warren, yet  
newly furnished  
with every



*ink pen*

Starts writing  
at a touch and  
keeps on writing  
smoothly and evenly.  
Makes writing in class, "ex-  
ams" or study much easier, for  
you don't have to watch a Moore.  
It always writes RIGHT. The  
original "won't leak" pen, too.  
127 styles and sizes from \$2.50.

For Sale at College  
Bookstores and all  
Dealers

**Moore's won't leak**

AMERICAN FOUNTAIN PEN CO., Mfrs.  
Adams, Cushing & Foster, Selling Agents  
606 Devonshire Street, Boston, Mass.

Tuxedo has a deliciously mild, fragrant  
aroma that is pleasant to all. It is the *only*  
tobacco you can smoke in a room full of lace  
curtains without leaving even a trace of odor.

A trial will convince you that Tuxedo is  
superior to every other tobacco you have ever  
smoked. Buy a tin—today.

### YOU CAN BUY TUXEDO EVERYWHERE

Convenient pouch,  
inner-lined with  
moisture-proof paper **5c** Famous green tin,  
with gold lettering,  
curved to fit pocket **10c**

In Glass Humidors, 50c and 90c

**FREE** Send us 2 cents in stamps for post-  
age and we will mail you a souvenir  
tin of TUXEDO tobacco to any  
point in the United States. Address

THE AMERICAN TOBACCO COMPANY  
Room 1299 111 Fifth Avenue New York



IRVIN S. COBB  
humorist and novelist  
"I can't think of any rea-  
son why I shouldn't say I  
like Tuxedo — because I do  
like it, very much."

*Irvin S. Cobb*

## MR. FRANK E. MORSE

TEACHER OF SINGING AND COACH

162 BOYLSTON ST.

STEINERT HALL

BOSTON

## Students' Laundry Work

I am prepared to do plain laundry  
work at a reasonable price. I will call  
for and deliver the work at the cage.  
Apply to

## R. A. GREENE

The Cage, Tech Union

IT PAYS TO TRADE WITH OUR ADVERTISERS



# THE TECH SUPPLEMENT

BOSTON, MASS, WEDNESDAY, DECEMBER 23, 1914

## PRESIDENT MACLAURIN TECHNOLOGY'S LEADER

The Man Who Has Made The Visions Of "The White City" A Reality.

President Richard Cockburn MacLaurin, under whose guidance Technology has found its way to its present position of security, recently completed the sixth year of his administration as the head of the Institute. Born in Edinburgh in 1870, his early boyhood was spent in New Zealand, returning to England in time to complete his preparatory education for the University of Cambridge, which he entered in 1892, holding a foundation scholarship in St. John's College. Dr. MacLaurin took both the Bachelor's and Master's degrees in Arts from Cambridge, the thesis work for the latter being the most advanced mathematics. Upon his graduation he received the Smith Prize for excellence and was elected a Fellow of St. John's College.

During 1896 and 1897, Dr. MacLaurin spent ten months visiting educational institutions on this side of the Atlantic, the greater part of the time being given to a study of McGill, the University of Toronto, and Leland Stanford University. Upon his return to England he re-entered Cambridge, this time to study law, and was awarded the McMahon Law Studentship, the most valued of its kind in the University.

In 1898 Dr. MacLaurin was appointed Professor of Mathematics in the University of New Zealand and during the same year received the degree of Doctor of Science from Cambridge. He became a trustee of the University of New Zealand and took an active part in the organization of technical education in the colony. In 1903 he was elected Dean of the Faculty of Law and held this office four years, until in 1907 he was invited to take the chair of Mathematical Physics in Columbia University, in New York. A year later Columbia made him the head of the Department of Physics. In 1904 he was honored by Cambridge with the degree of Doctor of Laws for his many achievements in the judicial field.

On November 23, 1908, Dr. MacLaurin was appointed by the Corporation of Technology to be President, and from that day he has been steadily working for the Institute with that success which has been so often set

(Continued on Page Three)

## INSTITUTE WILL OCCUPY NEW BUILDINGS IN NEAR FUTURE

Efficiency The Keynote Of The Whole Construction—  
Support of the Alumni Evident Since  
Beginning of the Work.

## WILLIAM BOSWORTH THE ARCHITECT

Designer Of New Technology  
Has Had Wide Training  
And Experience.

The admirable plan of the New Technology is a striking tribute to the architectural genius of William Welles Bosworth, of New York, its chief architect. Mr. Bosworth studied at the Institute for three years, being affiliated with the Class of 1889. After leaving Technology, he entered the office of H. H. Richardson, where he remained for a year and a half. He left this office to become associated with Mr. Olmsted in landscape work in California. Later he was on the staff of the "American Architect" and made extensive studies of European architecture.

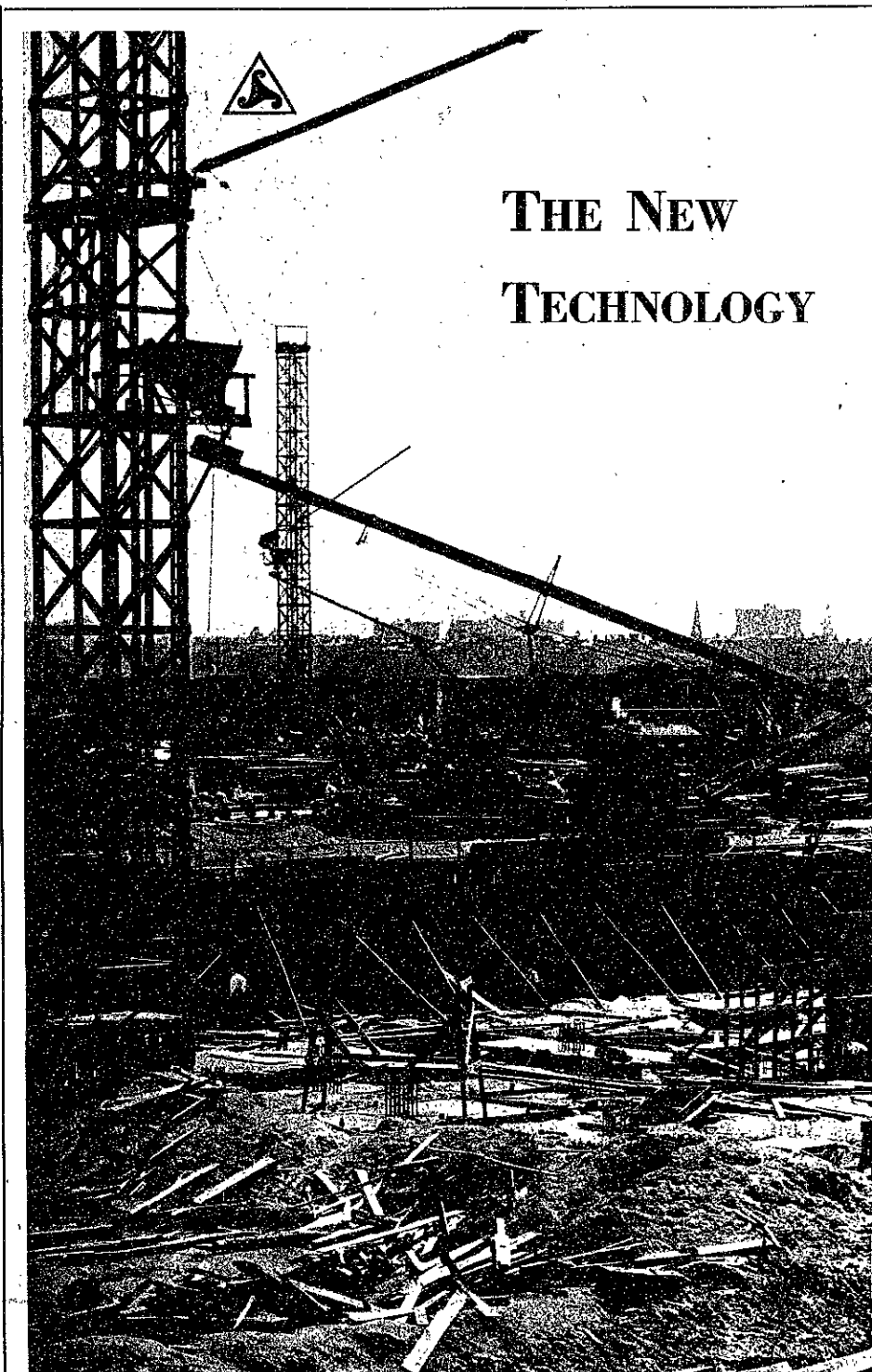
In 1896, he went abroad to supplement his American architectural training with study in the best schools in Europe. He worked in London under Alma Tadema, and then went to Paris, to the ateliers of Godefroy Freynet, Gaston Reden, and Chaussemiche, now the architect of Versailles and le Trianon. He visited Holland and Rome before his return to America.

Mr. Bosworth was next appointed Resident Architect of the Pan-American Exposition, on the plans of which he had already spent some time. He also designed several buildings for the St. Louis Exposition. After going abroad again, this time to Spain, Mr. Bosworth opened an office for himself in New York.

For several years Mr. Bosworth then designed gardens, residences, and other buildings for private owners: the famous Rockefeller gardens at Pocantico Hills are typical examples. It was during this period that he gained his great reputation for the power of getting fine effects by simplest means.

Recently, he has been engaged on a magnificent thirty story white granite structure in New York, which is to be the headquarters of the Western Union Telegraph Company. This building will be recognized as

characteristic of Mr. Bosworth's evident dislike of complication and ornateness, and his disinclination to use ornamentation except with some definite purpose in mind. Like the New Technology, it testifies to his good taste, his classic sense of simplicity, and his efficient method of dealing with practical problems.



THE NEW  
TECHNOLOGY

Technology will be moved in the near future to its new home in Cambridge on the Charles River. The buildings are rapidly taking shape and the enormous project is now assuming definite results, due largely to the systematic manner with which the whole affair has been treated. From the moment when the new quarters were definitely decided upon, everything has been solved from an efficient standpoint.

In the first place, efficiency is shown in the method adopted for the arrangement of the buildings in one continuous group. The advantage of this

(Continued on Page Two)

## THE NEW TECHNOLOGY

(Continued from Page One)

lies in the convenience to students and the saving of time and steps by bringing the classrooms nearer together. This grouping also lends itself admirably to the expansion and development of the different departments. The growth of these is independent one of another and no one can foretell what the future will bring forth; for example the small departments of twenty-five years ago now demand large spaces and elaborate equipments.

From the very outset the alumni have generously given their time and money in order that the new Institute should be of the best. Mr. John R. Freeman, '76, spent one entire summer considering engineering problems and making researches into the conditions, equipment, and fitness for the purpose of educational buildings. He went carefully into every detail of construction for the buildings and suggested the single structure.

Another alumnus, Professor William O. Crosby devoted much time to the consideration of the soil for foundations, ascertaining the nature of the subsoils on the tract of land. Many borings including eighty by Professor Crosby and one hundred by Stone & Webster were made, beside tests by means of heavy loads, to determine the co-efficient of sinking under weight.

The architect chosen for this great undertaking was William Welles Bosworth, '89, who was the third of the alumni to perform important work. Much aid and advice was given by Professor James Knox Taylor, former head of the Architectural Department. The planning of fifteen acres of buildings has been no easy task for the architect and his assistants, but through it all the efficiency of the system has not been overlooked.

The alumni of Technology are also in evidence in the actual work of construction. A great deal of grading was necessary, which has been under the care of John T. Scully, '00, the head of a Cambridge corporation. The buildings are being built by the Stone & Webster Engineering Corporation, composed chiefly of Technology men, six out of the seven principal men being Institute graduates, all of whom are working for the best interests of the new Technology. The corporation is spending thousands of dollars from its own treasury in order to make the entire project efficient from every standpoint.

The first official pouring of concrete

took place on April 9, 1914, and since then work on the erection of the buildings has progressed rapidly. Changes in the scope of the work necessitating some revisions in the architect's plans delayed progress in the early summer. By the middle of July the revised plans were approved and since that time, construction has rapidly advanced. Excavation has been completed and with the exception of the library, where work is now under way, pile driving has been finished. In the pile driving, 25,000 piles were used so as to insure a solid foundation. In the excavating a force of 900 men removed 65,000 cubic yards of earth. All the earth has been used in filling, and in addition, 40,000 yards have been brought to the lot from the subway excavations.

There are six independent construc-

tion gangs at work, each with its administration, engineers, workmen, trestles, and pits, runs, and concrete towers. Each has its own headquarters, stock house, telephone, and equipment. There is a first aid station so that in case of injury, the workmen can receive prompt attention.

In order to handle the material in the most efficient manner, over a mile of track has been laid, including five railway tracks and a short spur to remain until the buildings are completed, with 720 feet of trestle, B. & A. standard. In this way the stock can be delivered wherever desired. The trestles are over the sand and

gravel bins, thus concentrating the means for getting the aggregate or mixtures of material in the concrete. The company has its own locomotive which does not leave the grounds.

There is also

a full sized self-propelling railway crane which transfers the heavy items of equipment, like concrete mixers, without difficulty or delay.

The fire protection system includes a half mile of water pipe with 25 outlets which was laid at the very beginning. Seventeen of the outlets are provided with regulation fire holes so that in case of blaze, it could be attacked by means of a hose immediately. A dozen other outlets are used for mechanical purposes. There are also several miles of wire for current and telephone. A mile of wire fence incloses the lot that is reserved for the present building operations.

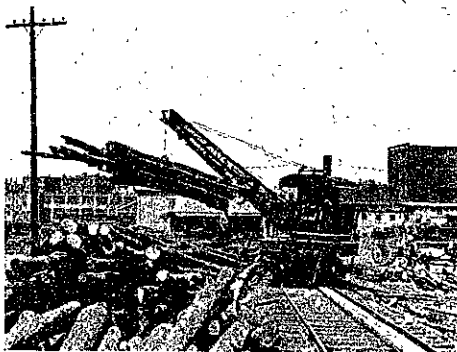
The contractors have arranged a timetable which is as definite as a railroad timetable and in which every detail is considered. Hundreds of plans and thousands of blueprints have had definite dates set for their delivery to the engineers.

The methods of handling are the most efficient possible. Thousands of carloads of stock must be so delivered that the work shall not be delayed. This necessitates a correlation between the supervising engineers, architect, engineering forces, firms furnishing stock, and heads of the gangs engaged in each unit of work. It is possible for the engineers to tell when a certain scoop of cement was poured, as there is a device which automatically records each. The concrete forms are used on an average of two and one-half times.

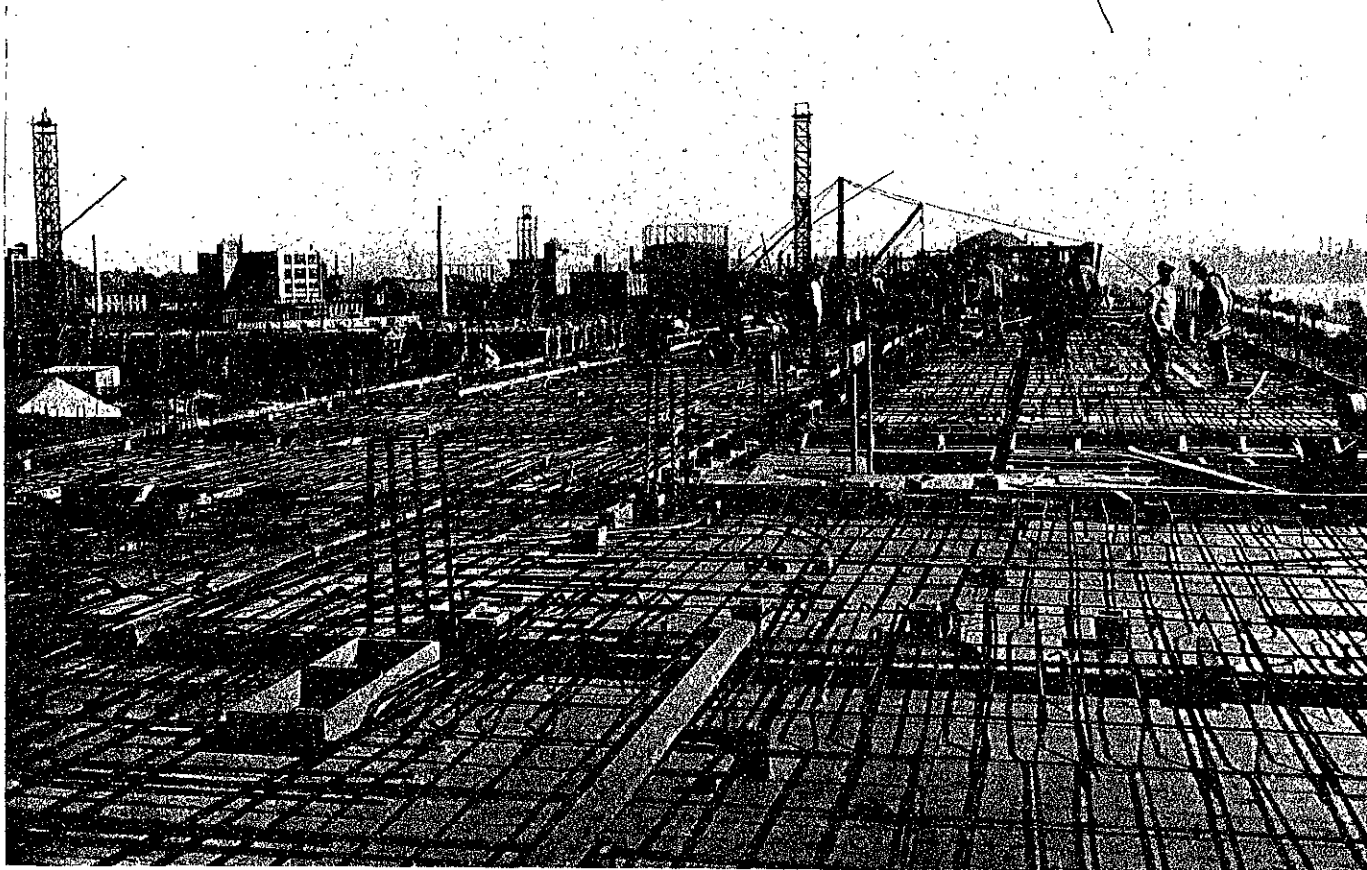
In concrete buildings a modern engineering problem arises of foreseeing everything at the time the plans are made. In building with wooden floors, holes for stairs, etc., are determined in the beginning, but the plumber, steamfitter, and electrician come in their time and cut holes where desired for each particular branch of work. In concrete building, however, holes cannot be cut so easily and so in going over the buildings in their present condition, the floors will be found sprinkled with holes for pipes of the different services, the exact run of each having previously been determined in the offices.

Over 60,000 square feet of forms have been erected and thousands of tons of reinforcing steel placed, with many more cut and bent, ready for placing. The illustration gives a slight idea where the 36,800 tons steel reinforcement are being used in the buildings. The only machine in the East for bending the reinforcing steel is used on the grounds. The steel reinforcements are delivered in 60-

(Continued on Page Three)



"25,000 piles were used"



"36,800 tons of steel reinforcement are being used"

## THE NEW TECHNOLOGY

(Continued from Page Two)

foot lengths and up to one inch are bent in the machine. The larger sizes are bent by hand on a steel bed. The delivery of the steel is by means of runs which work under the action of gravity. Each kind as it slides down the run drops into its own particular bin and the bars are pulled out from the bins by a winch and then worked on a bending table.

The general plan shows by the shaded portion the buildings now under construction. Of these, the roofs are on as far as 9 and 10 and these will soon be roofed over. Over 40,000 cubic yards of concrete have gone into the walls and roof. The concrete work is about completed and several of the buildings have received a facing of limestone. The moving of the Courses will probably be a matter of convenience to the individual departments and it is expected that several will be in their new quarters by next fall. The dedication of the new buildings will undoubtedly not take place until sometime during 1916.

## PRESIDENT MACLAURIN

(Continued from Page One)

forth by announcements of substantial aid to it and its departments. Without a head since the resignation of Dr. Pritchett, the Institute had been unable to discuss important questions. One of these was the manifest impossibility of continuing its work in its present quarters if the full plans of its founders were to be carried out. Technology was then moving under shortened sail till the real captain should come aboard.

Dr. MacLaurin unified the Corporation and the Faculty and with his personality, gained the confidence of the alumni and bound them as never before into a great force working for

the benefit of the Institute. One of the first fruits of this was the gift by T. Coleman du Pont of half a million towards the purchase of a new site. Here there came an almost unnoticed bit of Institute patriotism for when the payment was to be made for the Cambridge land the Corporation without any fuss or advertisement made up the necessary quarter million and paid down the cash. Following up the idea that it was proper to ask the Commonwealth of Massachusetts to continue its aid to Technology, President MacLaurin and the alumni took up this matter, and the signing of the bill by Governor Foss following the du Pont gift came as an assurance of the future. When the site question was settled the quest of sufficient money to start construction began. In the midst of this planning the enthusiasm was heightened enormously by the great gift of two and a half millions from Mr. Smith. Other gifts followed, and Stone & Webster were enabled to begin the excavation.

The fact that during a space of eighteen months over seven millions dollars were collected is one of the best proofs of the confidence held by Alumni, Corporation, and others in the ability of President MacLaurin to construct the "White City" as a New Technology on the broad foundations laid out for it by its projector and first president, William Barton Rogers.

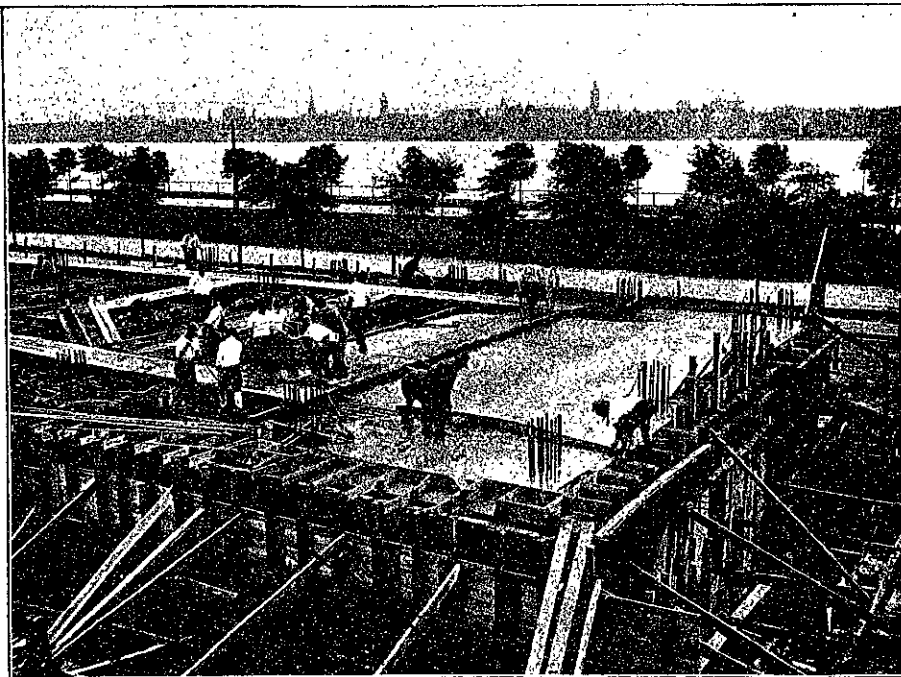
## CONSTRUCTION CHART FOR EACH BRANCH

### Work Shows Many Interesting Features—Unusual Concrete Tests.

The methods by which Stone & Webster have carried out the construction work of the New Technolo-

end of twenty-eight days. Both samples are taken from the same batch in order to obtain their true relative value. The concrete is poured into iron moulds embedded in moist sand, and resting on a half inch iron plate, is kept in the northeast section of the Site, the maximum and minimum temperatures being recorded daily.

Each specimen is tamped in the



"Over 40,000 cubic yards of concrete have gone into the walls and roof"

gy have received many comments on their thoroughness and business-like efficiency. One of the interesting features of this "thoroughness and business-like efficiency" which has been commented upon by many people is their method of conducting the field tests of the concrete.

Samples are taken from each of the five mixers four times a week, one sample being tested at the end of fourteen days, and the other at the

moulds with a six inch flat iron tamp, and only the ordinary precautions are taken. After forty-eight hours, the casts are removed from the moulds and buried in moist sand until the morning before the day of testing. They are then brought to the Institute laboratories, where the test is carried out.

In order to trace out more clearly the various departments of the work compiled a series of progress charts showing the estimated times of the beginning and completion of different construction branches. From a general chart compiled from all of these the following data has been taken:

"By the end of next March all of the window frames of the buildings at present under construction will be in place and two weeks later the brick work is scheduled for completion and all the limestone facing is to be in place.

"The partitions are to be erected during the months of March, April, and May, 1915.

"Four weeks of April and the first week of May are allotted to roofing and sheet metal work.

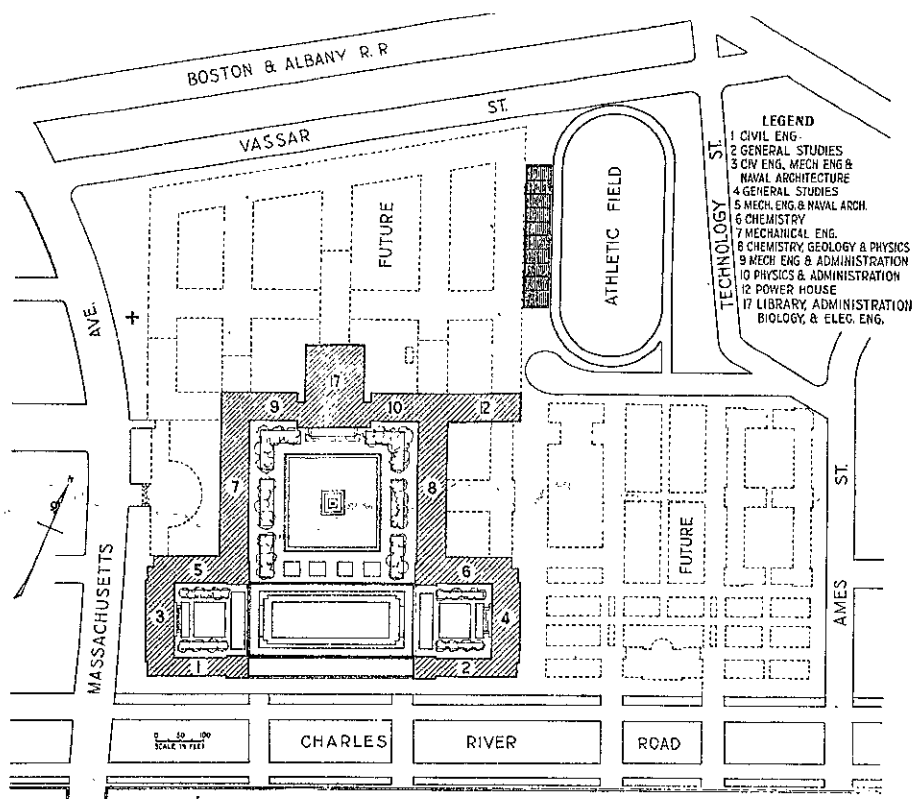
"The plastering and lathing is to take twelve weeks and be finished by June fifteenth.

"All the wood work is to be in by the first week in July and a week later the painting is to be done.

"The installation of hardware is to take but four weeks and be over one week after the end of the painting.

"August first is to mark the finish of the electrical, the plumbing, the heating, and the ventilating systems.

"Cleaning, the last step, is to cover a space of two months, July and August."



"The general plan shows by the shaded portions the buildings now under construction"

# A Letter From "Ma" With P. S. From Sister

"It was all right to be an Indian in the football season, but you must be civilized now, and heed your social duties. You told us in one of your letters about that **BEAUTIFUL DRESS SUIT** that Burke makes for \$50.00 **GET ONE**, if you haven't.

Sister's P. S. "That's right."

---

## BURKE & CO., Inc. TAILORS

18 School St., 843 Washington St., Boston  
Harvard Square